CLAIMS

1	1-50.	(canceled)
1 2 3		(previously presented) A lineariser for reducing distortion of an output signal of signal ment, by processing a raw signal with data selected from a store in response to the frequency content of the raw signal.
1	52-53.	(canceled)
1 2 3 4	frequency or ba	(previously presented) A lineariser according to claim 51, wherein the store comprises a up tables, each table corresponding to a component of the raw signal having a different and of frequencies, and each table comprising a table of coefficients, each coefficient a value of the amplitude of the component of the table.
1	55-56.	(canceled)
1 2 3	57. for dividing the frequencies.	(previously presented) A lineariser according to claim 51, further comprising a divider e raw signal into a number of components having different frequencies or bands of
1	58-61.	(canceled)
1 2 3 4		(previously presented) A method of reducing distortion of an output signal of signal ment, said method comprising the steps of selecting data from a store in response to the frequency content of a raw signal, and using the data in distortion reduction processing of
1	63-64.	(canceled)
1 2 3 4	frequency or ba	(previously presented) A method according to claim 62, wherein the store comprises a up tables, each table corresponding to a component of the raw signal having a different and of frequencies, and each table comprising a table of coefficients, each coefficient a value of the amplitude of the component of the table.
1	66-67.	(canceled)
1 2 3	68. dividing the ray frequencies.	(previously presented) A method according to claim 62, further comprising the step of w signal into a number of components having different frequencies or bands of
1	69-72.	(canceled)
1. 2 3 4 5	(a)	(new) A method for reducing distortion in an output signal generated by signal handling method comprising: dividing a raw signal into a plurality of raw components, each raw component having an each raw component corresponding to a different frequency or band of frequencies; generating a modified component for each raw component based on the amplitude of the

(c)

combining the plurality of modified components to generate a modified signal.

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1 2 3 4	83. (new) The invention of claim 82, wherein: the signal handling equipment is an amplifier adapted to amplify the modified signal; and the modified signal is generated by applying pre-distortion to the raw signal, wherein the pre-distortion reduces the distortion in the output signal generated by the amplifier.		
1 2 3 4 5 6	84. (new) The invention of claim 82, wherein: means (a) comprises a plurality of band-pass filters connected to receive different copies of the raw signal and adapted to generate the plurality of raw components, each band-pass filter corresponding to a different frequency or band of frequencies; and means (c) comprises a combiner adapted to sum the plurality of modified components to generate the modified signal.		
1 2 3 4 5	85. (new) The invention of claim 82, wherein: means (a) comprises a transform adapted to transform the raw signal from a time domain to a frequency domain to generate the plurality of raw components; and means (c) comprises an inverse transform adapted to transform the plurality of modified components from the frequency domain to the time domain to generate the modified signal.		
1 2 3 4 5	86. (new) The invention of claim 82, wherein: means (b) comprises a plurality of LUTs; each LUT corresponds to a different frequency or band of frequencies; and each LUT is adapted to provide, for the corresponding raw component, a value for the corresponding modified component based on the amplitude of the raw component.		
1 2	87. (new) The invention of claim 86, further comprising (d) means for adaptively updating values stored in each LUT.		
1 2 3 4 5	88. (new) The invention of claim 87, wherein means (d) comprises: (1) means for generating a feedback signal based on the output signal of the signal handling equipment; (2) means for dividing the feedback signal into a plurality of feedback components, each feedback component corresponding to a different frequency or band of frequencies;		
6 7 8 9	(3) a feedback and control mechanism adapted to generate, for each frequency or band of frequencies, an update value for the corresponding LUT based on the corresponding raw component and the corresponding feedback component; and (4) means for updating each LUT based on the corresponding update value.		
1 2 3	89. (new) The invention of claim 88, wherein the feedback and control mechanism comprises a divider adapted to receive the corresponding raw component and the corresponding feedback component to generate the corresponding update value.		
1 2 3	90. (new) The invention of claim 89, wherein the feedback and control mechanism further comprises an integrator adapted to integrate, over time, outputs from the divider to generate the corresponding update value.		